

Newton's 1st Law & Resulting Motion WS 8

1. In which section was the cart traveling with a constant positive velocity? _____ & _____

2. In which section(s) was the cart traveling with a constant negative velocity? _____ & _____

3. In which section(s) was the cart at rest? _____ & _____

4. In which sections was the cart located in a positive position? _____ & _____

5. In which sections was the cart located in a negative position? _____ , _____ & _____

6. What happens at point G? _____

7. In which section did the cart maintain its greatest average speed? How fast was it traveling? _____ & _____

8. In which section did the cart maintain an average speed of 5 m/s? _____

9. In which section did the cart maintain an average speed of 7 m/s? _____

10. How far did the cart travel in the first four seconds? _____

11. How far did it travel between 4 and 9 seconds? _____

12. How far did it travel in the final two seconds? _____

13. What was the carts total distance traveled in these 11 seconds? What was its average speed? _____ & _____

14. What was the cart's total displacement in these 11 seconds? What was the average velocity? _____ & _____

Position vs Time

